

Patent claims

1. Heat-protected thermoplastic component (1) having a carrier layer (2) made of a thermoplastic synthetic and an at least partially connected metallic foil (3),
5 wherein said foil (3) comprises a plurality of folding pockets (4), which are embedded in the carrier layer (2) and form a positive connection with the carrier layer (2).
2. Component according to claim 1, wherein the thermoplastic synthetic is an
10 endless fiber reinforced thermoplast (LFT).
3. Component according to claim 1, wherein the thermoplastic synthetic is a glass fiber reinforced synthetic (GMT).
- 15 4. Component according to claim 1, wherein the metallic foil (3) is an aluminium foil.
5. Component according to claim 4, wherein the aluminium foil has a thickness of 0.01 to 0.1 mm.
20
6. Component according to one of claims 1 to 5, wherein in a sector of 10 to 30 mm there are arrayed at least 1 to 5 folding pockets.
7. Component according to one of claims 1 to 6, wherein, between the metallic foil
25 (3) and the thermoplastic carrier layer (2) there is provided a hotmelt adhesive.
8. Component according to one of claims 1 to 6, wherein the peeling resistance W_s , after a constant exposure over more than 1000 hours to temperatures of about 140°C, has a value of at least 0.15 N/mm².
30
9. Component according to one of claims 1 to 6, wherein the peeling resistance W_s , after a constant exposure over more than 1000 hours to temperatures of about 140°C, is reduced by no more than 20%.

10. Component according to one of claims 1 to 9, wherein said component is a vehicle underside component.